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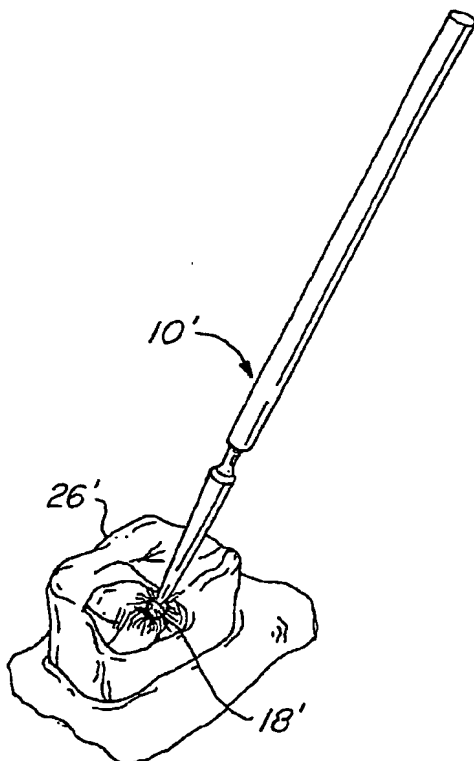
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[Continued on next page]

(54) Title: PRE-DOSED APPLICATOR AND APPLICATOR SYSTEM INCLUDING DISPENSING OF MULTI-PART DENTAL MATERIALS



(57) Abstract: An applicator (10) for applying a material such as a chemical or a medicament. A material to be applied is placed on an absorbent portion (18) of the applicator (10), such as a flocked end, sponge or foam, brush, or other equivalent absorbent substance. After drying, the material is in an inactive stable state on the applicator. When desired, the inactive stable material is activated by water or other solvent. In another embodiment, a package (38) containing an applicator end (46) having a pre-doses dry inactive stable material is combined with a second activating material (48) so that a two-part or multi-component material may be easily dispensed and activated. The package containing the first and second component may be a tray, a capsule, or a tip end syringe. In another embodiment first and second applicators (510A, 510B) each having one dry component are re-activated and applied in sequence to create a reaction and desired material at the site of treatment. The pre-doses single use applicator may be used to apply a variety of materials, such as chemicals or medicaments, to the surface or site desired without complicated and messy mixing or cross-contamination.



SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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# INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/31358

## A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : A61C 17/00

US CL : 433/80

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 433/80, 89, 81, 82

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X ---	US 6,290,503B1 (LEMON et al.) 18 September 2001 (18.09.2001), see entire document.	1,2,15,17
Y		16,18-34
X ---	US 3,863,654A (MORANE et al.) 04 February 1975 (04.02.1975), see entire document.	1-10,13,14
Y		11,12
Y ---	US 5,660,273A (DISCKO, JR.) 26 August 1997 (26.08.1997), see entire document.	18,19,31-34
A		35-36
Y	US 6,059,570A (DRAGAN et al.) 09 May 2000 (09.05.2000) see entire document.	11,12,16,20-30

☐ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

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